International application No.

PCT/JP2004/004399

			001/001000		
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ B22D23/00, B22F9/08, B22F3/115, B29C67/00					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SE	ARCHED				
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ B22D23/00, B22F9/08, B22F3/115, B29C67/00					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ar	ppropriate, of the relevant passages	Relevant to claim No.		
$\frac{X}{Y}$	JP 6-88202 A (General Electr 29 March, 1994 (29.03.94), Fig. 2; Par. Nos. [0017] to (Family: none)	•	1,3,6 2		
Y	JP 2001-293551 A (Citizen Wa 23 October, 2001 (23.10.01), Fig. 2; Par. Nos. [0009] to [(Family: none)		2		
A	JP 59-118805 A (Sumitomo Light Metal Industries, Ltd.), 09 July, 1984 (09.07.84), Fig. 1; page 4, upper left column (Family: none)		1-7		
X Further documents are listed in the continuation of Box C. See patent family annex.					
Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the interdate and not in conflict with the applicathe principle or theory underlying the in	tion but cited to understand		
"E" earlier applic	cation or patent but published on or after the international	"X" document of particular relevance; the cl considered novel or cannot be consid			
"L" document w	hich may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other	step when the document is taken alone "Y" document of particular relevance; the cl			
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive s combined with one or more other such of	tep when the document is		
"P" document published prior to the international filing date but later than the priority date claimed		being obvious to a person skilled in the "&" document member of the same patent fa	art		
Date of the actual completion of the international search 11 June, 2004 (11.06.04)		Date of mailing of the international searce 29 June, 2004 (29.0			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
Facsimile No.		Telephone No.	·		

Form PCT/ISA/210 (second sheet) (January 2004)

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		FC1/0F2	004/004399
(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
х	JP 10-244355 A (Howmet Research Corp.), 14 September, 1998 (14.09.98); Figs. 1 to 2; Par. Nos. [0011] to [0023] & EP 0852976 Al		1
•	,		

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
1. Clai	nal search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: ms Nos.: use they relate to subject matter not required to be searched by this Authority, namely:		
beca	ms Nos.: use they relate to parts of the international application that do not comply with the prescribed requirements to such an nt that no meaningful international search can be carried out, specifically:		
	ms Nos.: use they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
The in molten The in	vention of Claim 7 relates an injection device for injecting not molten out metallic powder, a mixture of non-metallic powder and a liquid,		
1. As a	Il required additional search fees were timely paid by the applicant, this international search report covers all searchable		
	I searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of dditional fee.		
	nly some of the required additional search fees were timely paid by the applicant, this international search report covers those claims for which fees were paid, specifically claims Nos.:		
	·		
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on P	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.		

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Continuation of Box No.III of continuation of first sheet(2)

A condition required for device and method of injecting molten metal and that required for injecting other materials described above should be completely different from each other. Although Claim 7 refers back to Claims 4 and 5 and these two claim groups are formally common to each other in the structure of the inventions, they are actually completely different inventions.

Consequently, there is no technical relationship between these inventions involving one or more of the same or corresponding special technical features.